4519 DOUGLAS ST NE SHADOW MOVEMENT STUDY

Exhibit no.1: SITE DEVELOPMENT PLAN

Showing the proposed project Two Story Single Family Residential Detached-Dwelling in Lot 23 (#4519) in relation to the existing building with solar panels (#4521) and its surroundings.

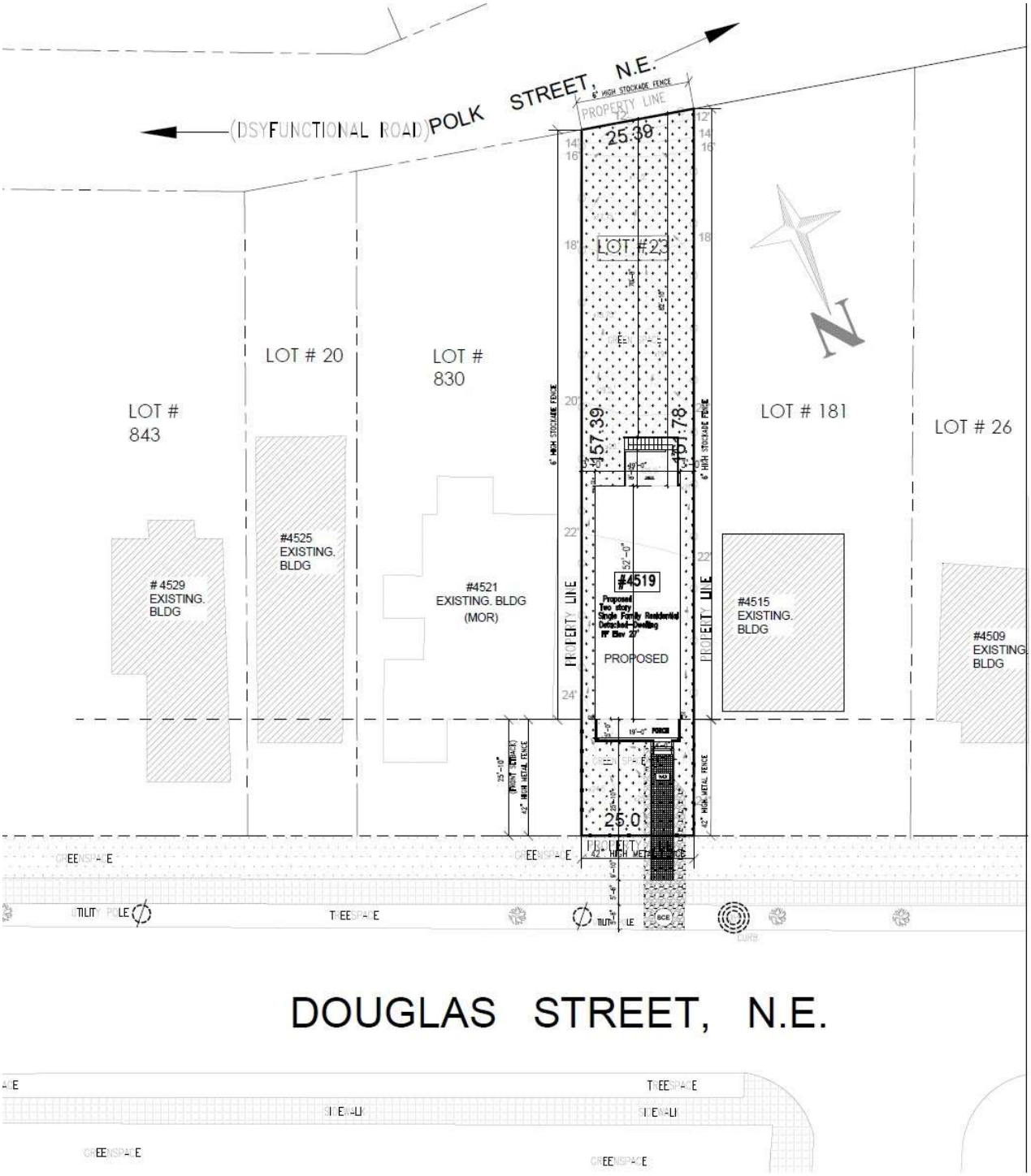


Exhibit no.2: FRONT ELEVATION

Showing the proposed project Two Story Single Family Residential Detached-Dwelling in Lot 23 (#4519) in relation to the existing building with solar panels (#4521) and other existing buildings in street view.

Exhibit no.3: SOLAR LOCATION SETTING IN REVIT

Showing the location where the solar analysis has been set to stablish the shadow movement.

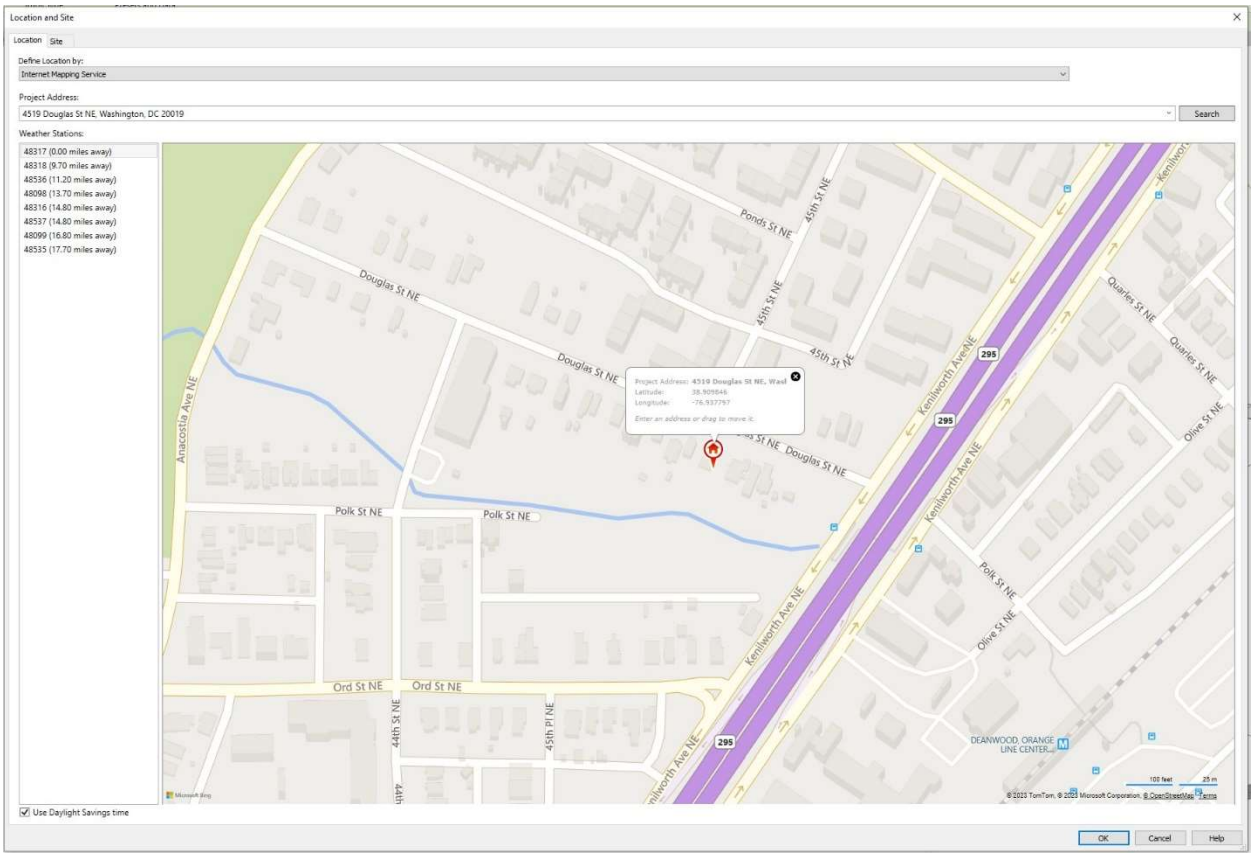


Exhibit no.4.a: SHADOW LOCATION AT 9:00 AM DURING FALL EQUINOX, No overshadowing from the proposed dwelling unit.

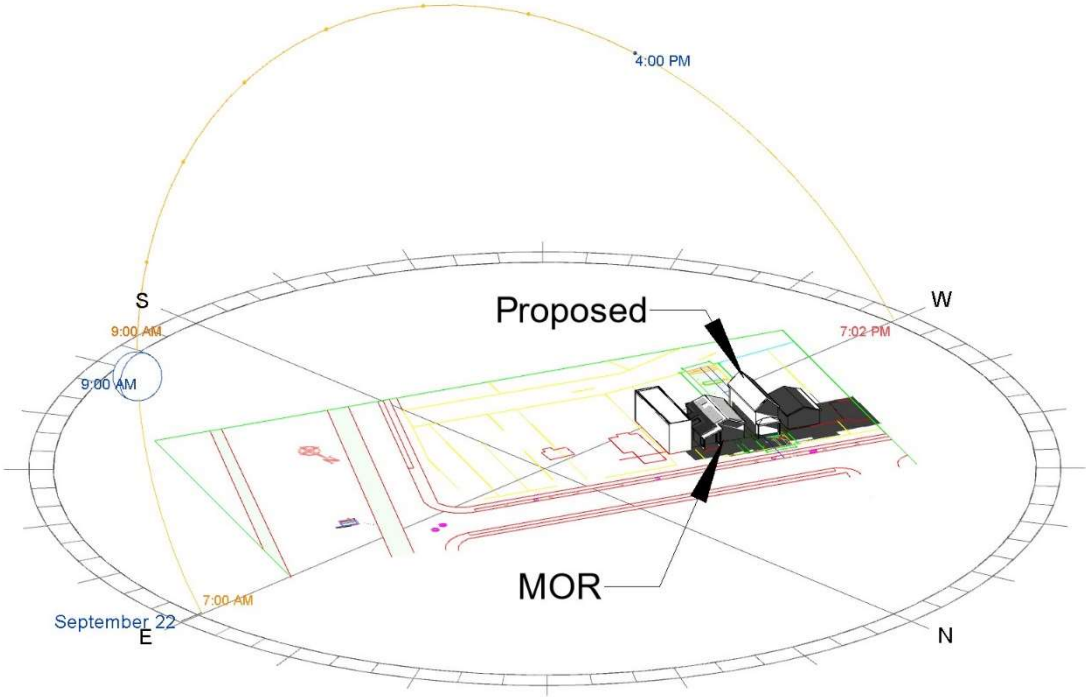


Exhibit no.4.b: SHADOW LOCATION AT 12:00 PM DURING FALL EQUINOX, No overshadowing from the proposed dwelling unit.

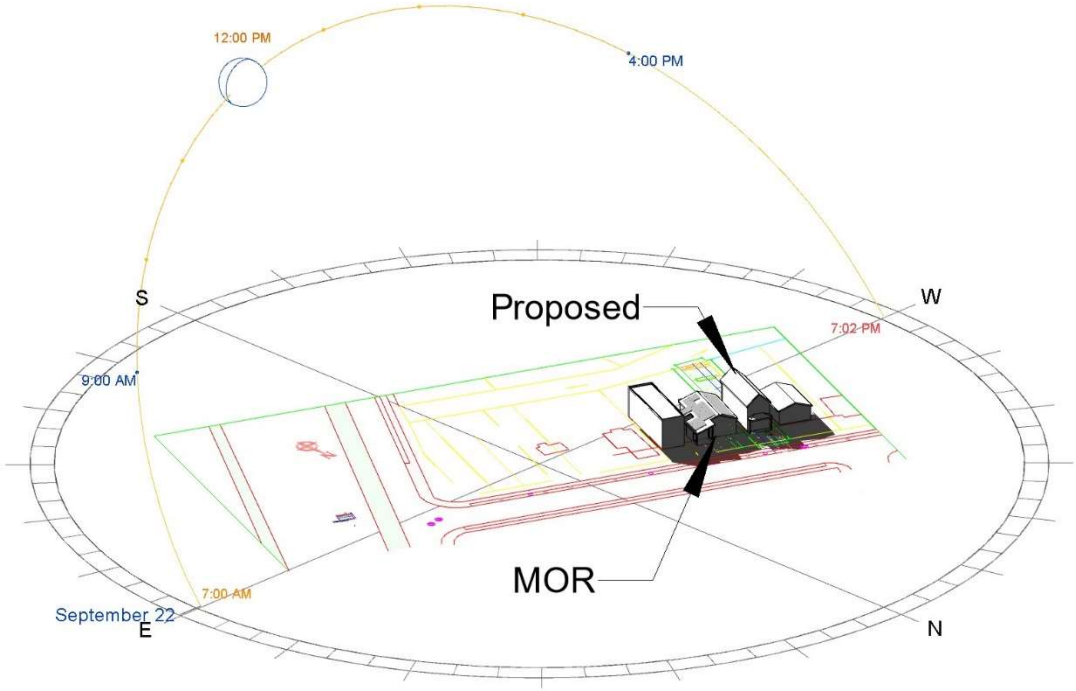


Exhibit no.4.c: SHADOW LOCATION AT 4:00 PM DURING FALL EQUINOX, No overshadowing from the proposed dwelling unit.

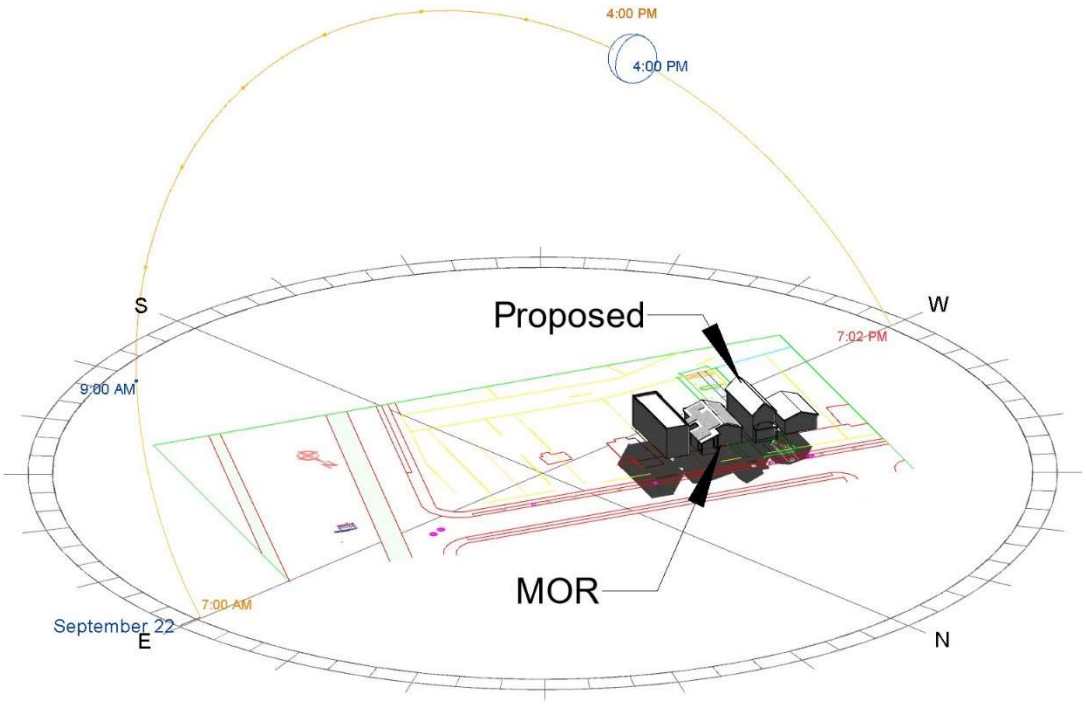


Exhibit no.5.a: SHADOW LOCATION AT 9:00 AM DURING SPRING EQUINOX, No overshadowing from the proposed dwelling unit.

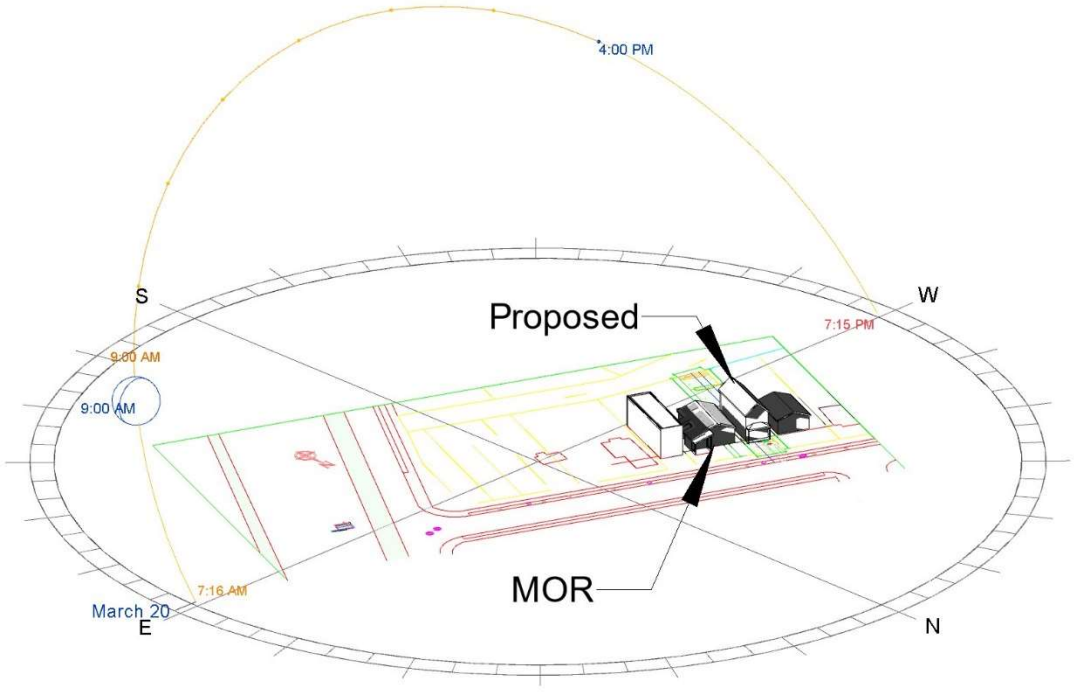


Exhibit no.5.b: SHADOW LOCATION AT 12:00 PM DURING SPRING EQUINOX, No overshadowing from the proposed dwelling unit.

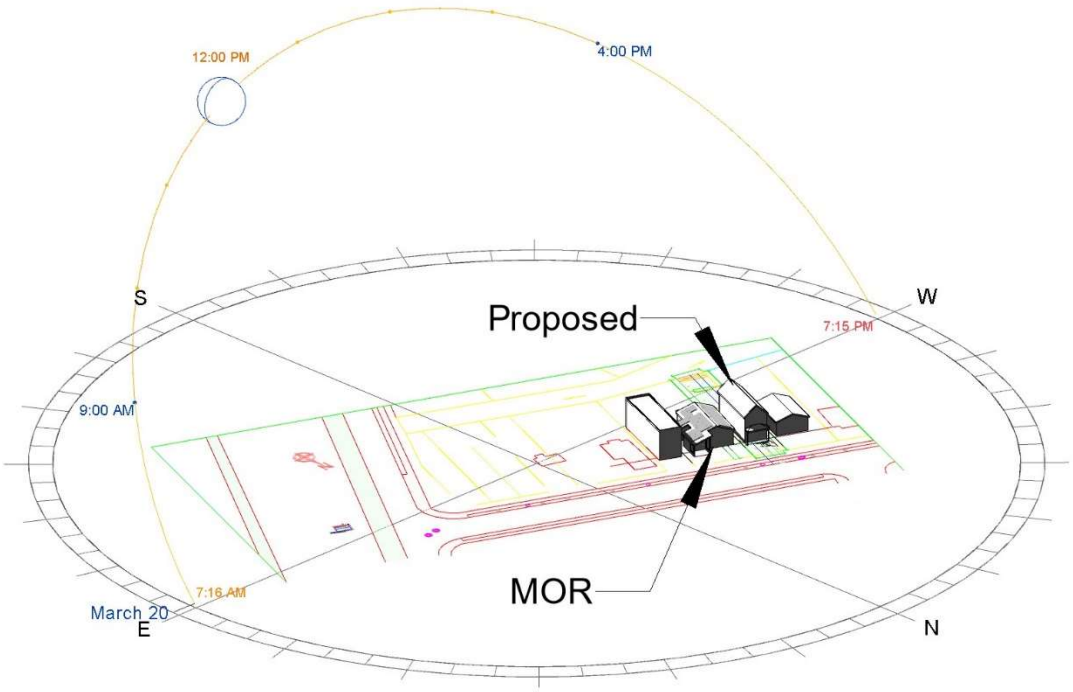


Exhibit no.5.c: SHADOW LOCATION AT 4:00 PM DURING SPRING EQUINOX, No overshadowing from the proposed dwelling unit.

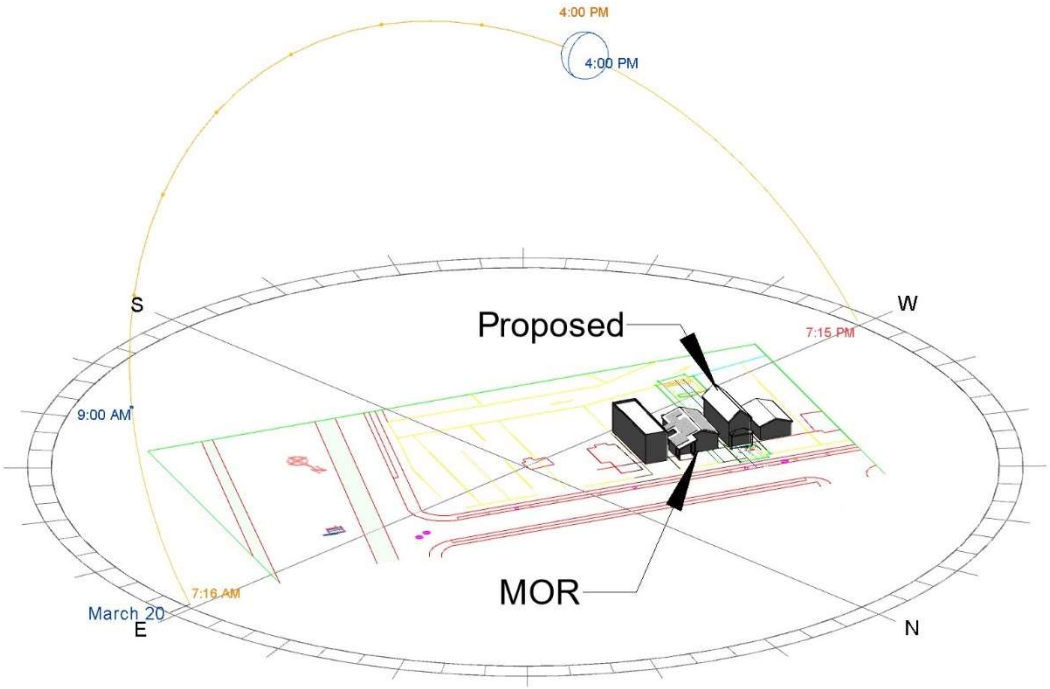


Exhibit no.6.a: SHADOW LOCATION AT 09:00 AM DURING SUMMER SOLSTICE, No overshadowing from the proposed dwelling unit.

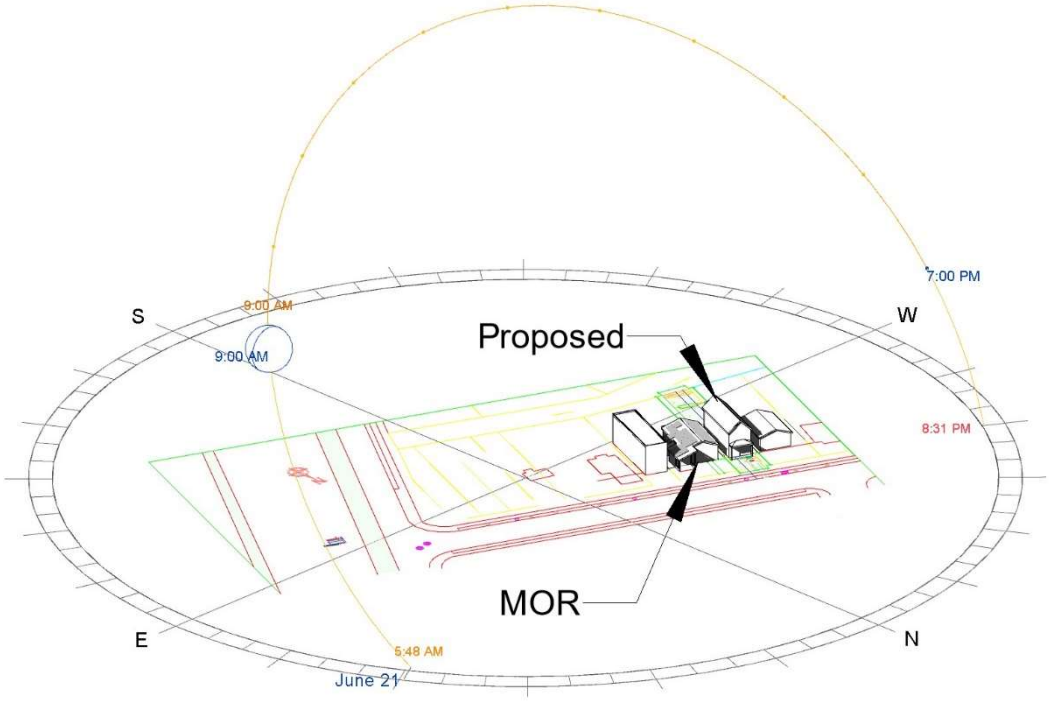


Exhibit no.6.b: SHADOW LOCATION AT 12:00 PM DURING SUMMER SOLSTICE, No overshadowing from the proposed dwelling unit.

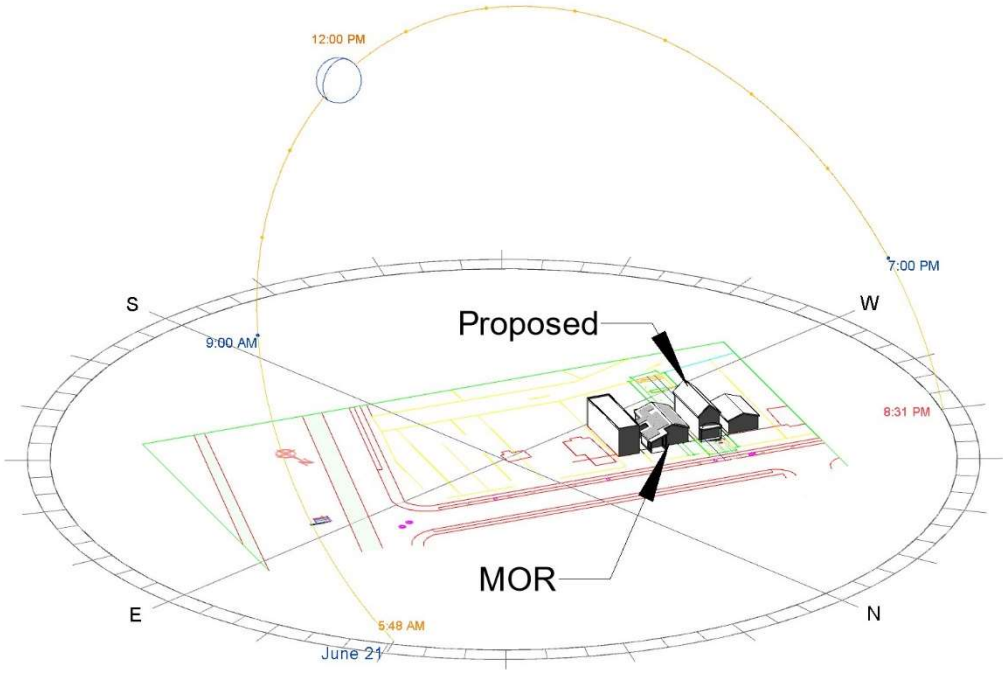


Exhibit no.6.c: SHADOW LOCATION AT 05:00 PM DURING SUMMER SOLSTICE, A little overshadowing on the edge of eaves from the proposed dwelling unit.

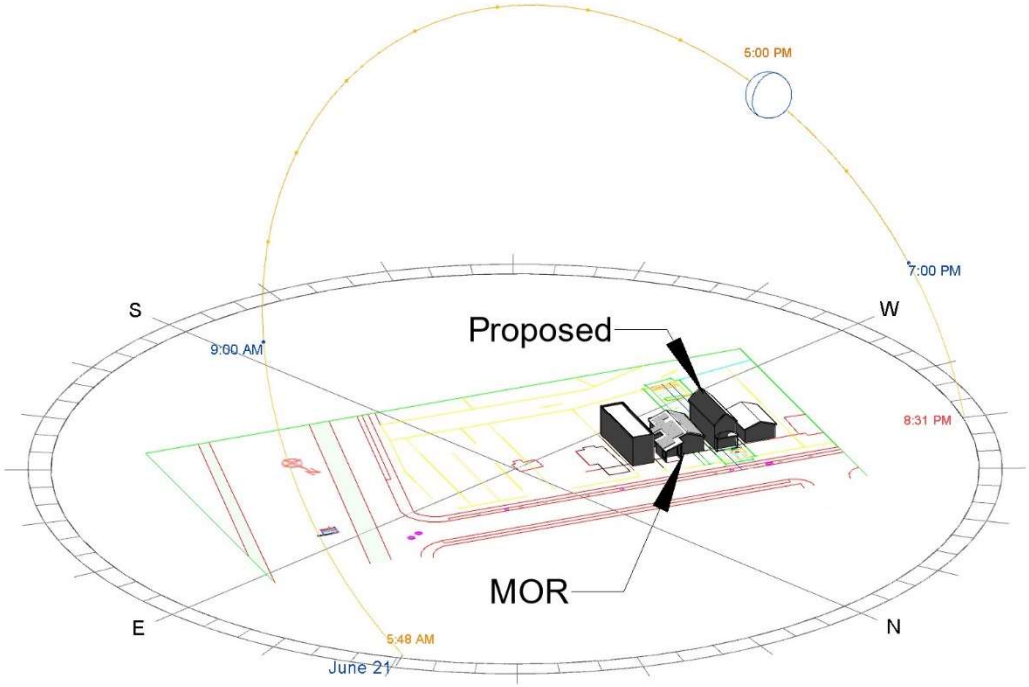


Exhibit no.6.d: SHADOW LOCATION AT 06:00 PM DURING SUMMER SOSLTICE, Overshadowing around half of the roof from the proposed dwelling unit.

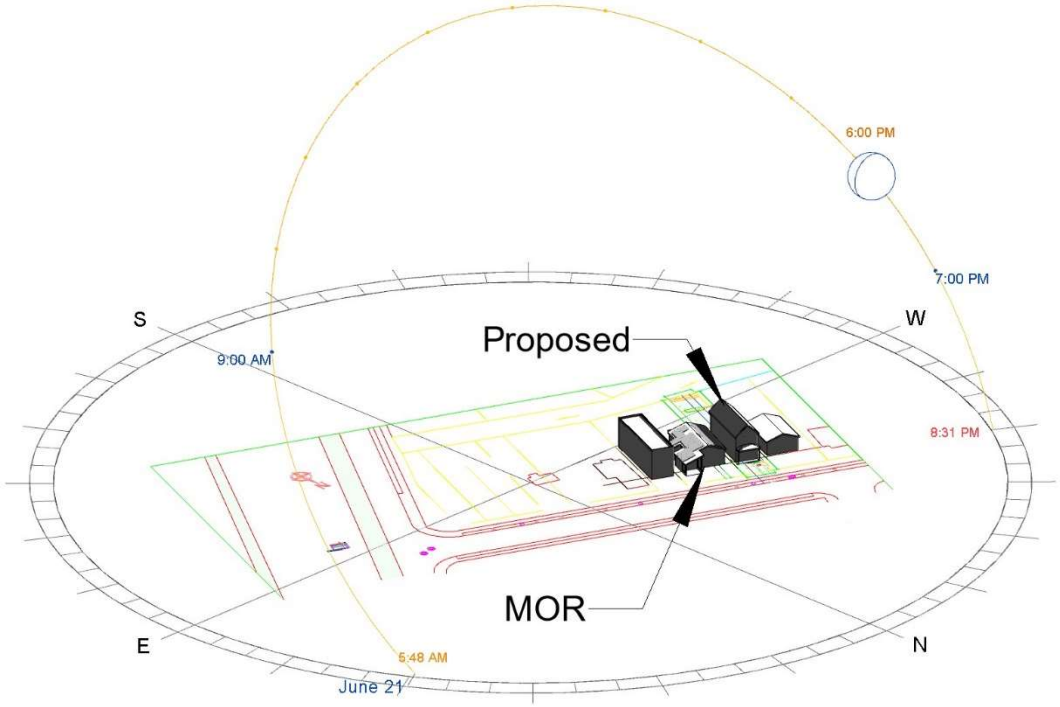


Exhibit no.6.e: SHADOW LOCATION AT 07:00 PM DURING SUMMER SOLSTICE, the dwelling is overshadowed by the proposed dwelling unit.

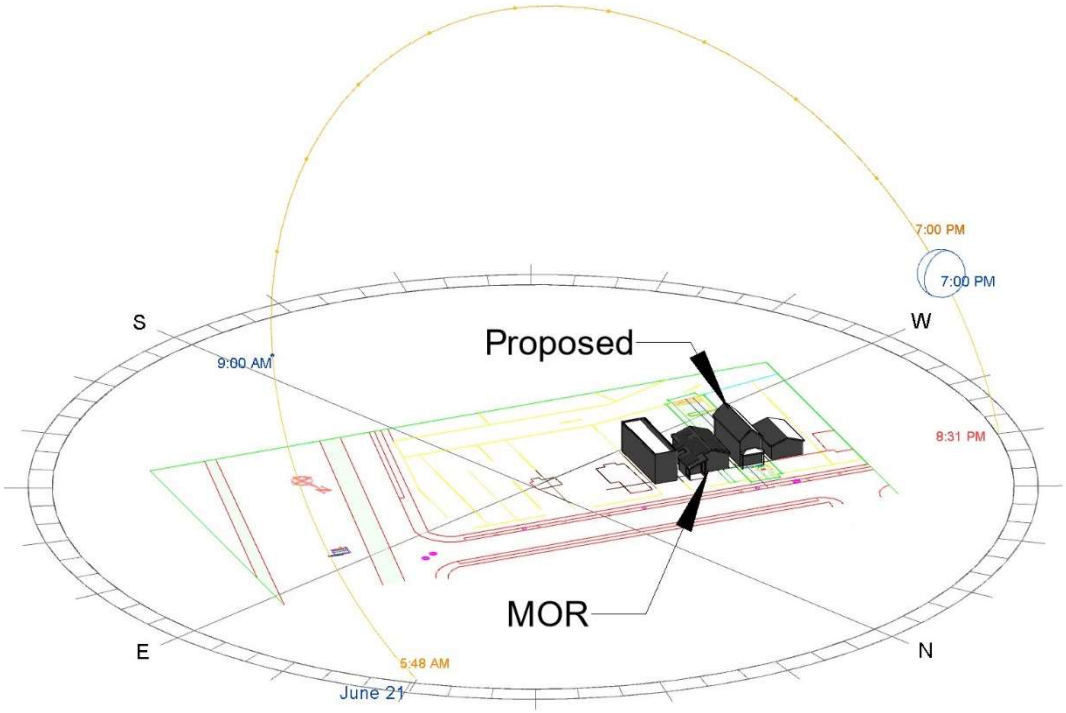


Exhibit no.7.a: SHADOW LOCATION AT 09:00 AM DURING WINTER SOLSTICE, No overshadowing from the proposed dwelling unit.

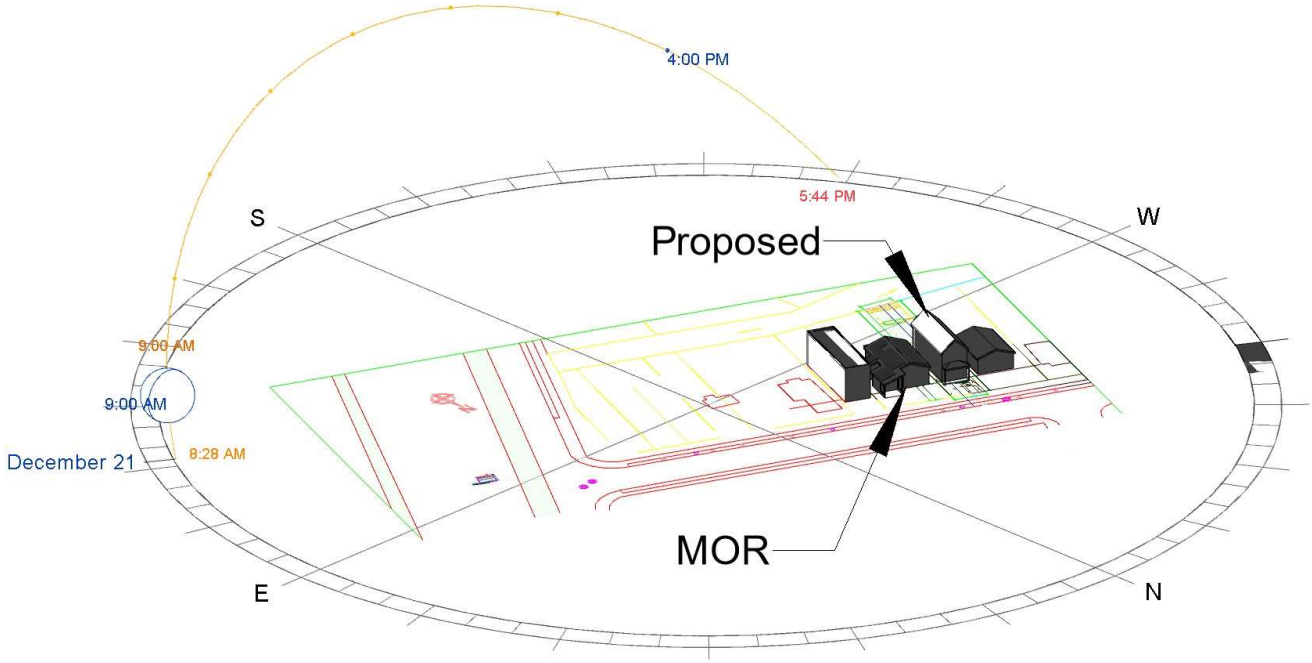


Exhibit no.7.b: SHADOW LOCATION AT 12:00 PM DURING WINTER SOLSTICE, No overshadowing from the proposed dwelling unit.

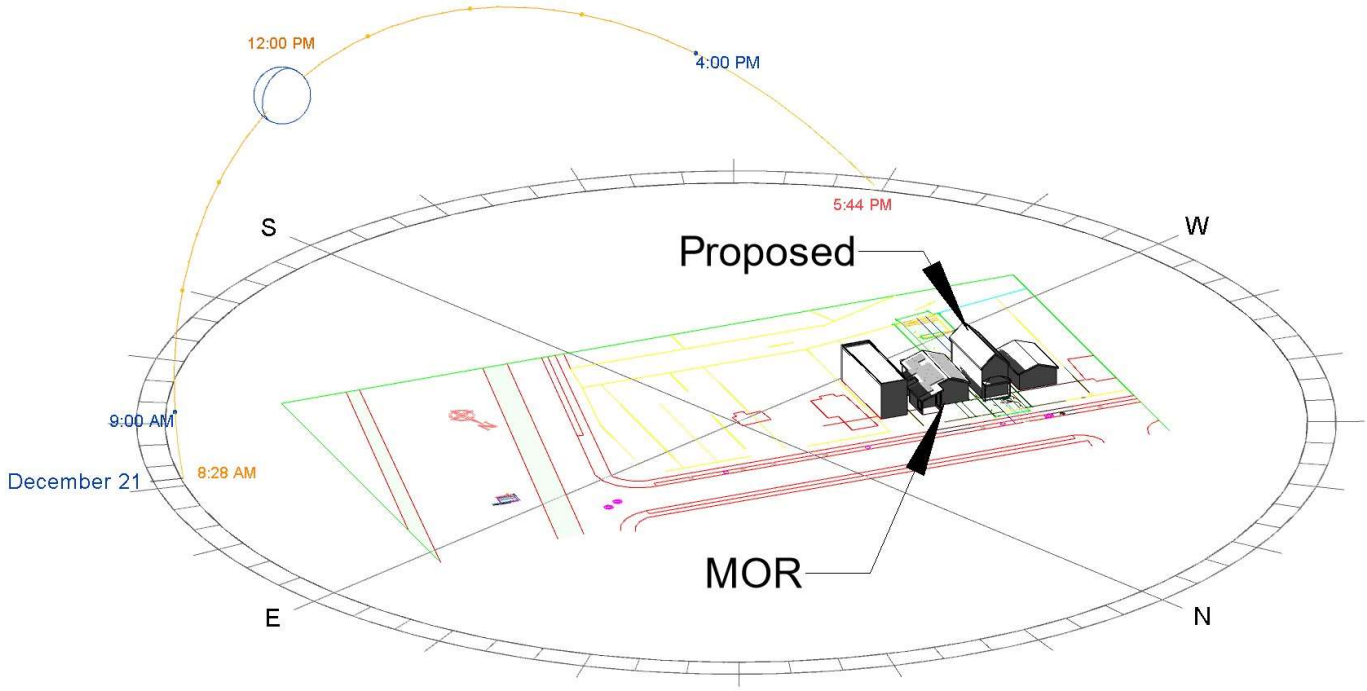
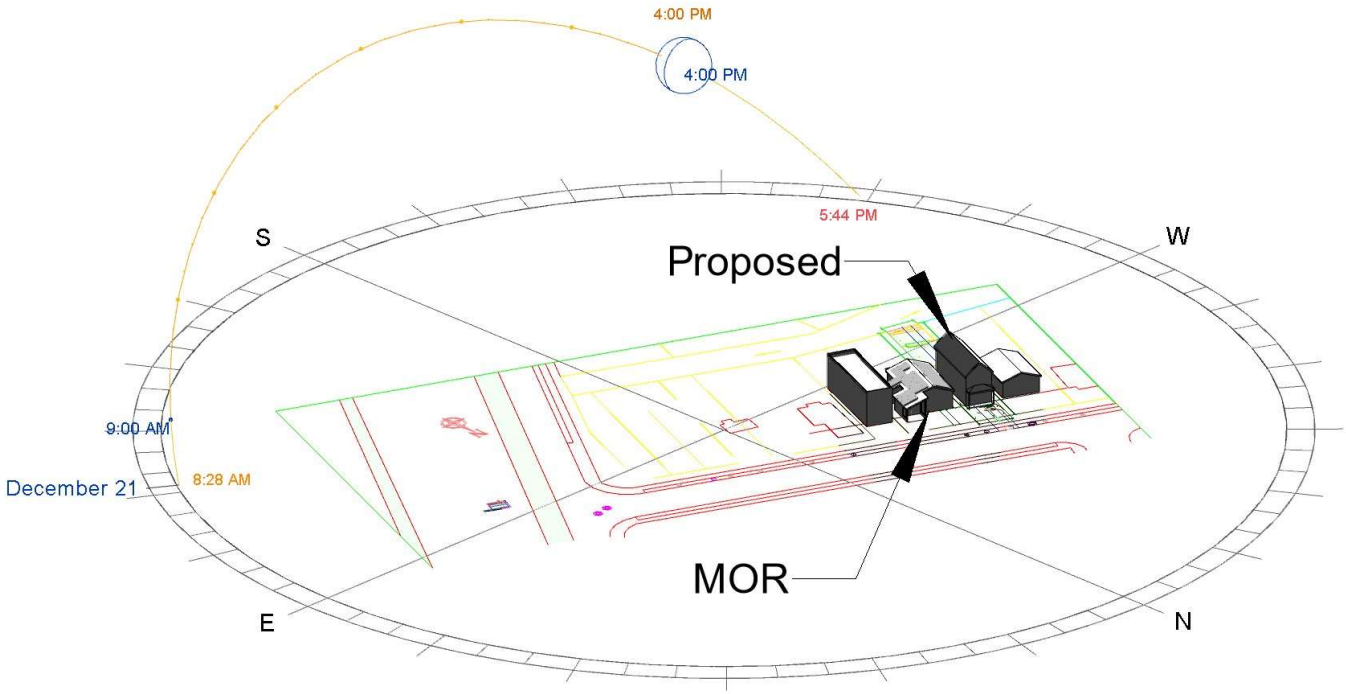


Exhibit no.7.c: SHADOW LOCATION AT 04:00 PM DURING WINTER SOLSTICE, No overshadowing from the proposed dwelling unit.



CONCLUSION

Based on the solar study the shadow movement generated from Revit software on from 9:00 AM to 4:00 PM of Fall Equinox, Spring Equinox, Summer Solstice & Winter Solstice is that the proposed project Two Story Single Family Residential Detached-Dwelling in Lot 23 (#4519) will not overshadow the Solar Panels of its neighboring Dwelling in #4521, the said project will not disrupt the sun shines onto the solar panels nor will affect its photovoltaics capacity.